



DEPARTMENT OF GENERAL SERVICES

Executive Office

The Ziggurat • 707 Third Street, Eighth Floor • PO Box 989052 • West Sacramento, CA 95798-9052 • (916) 376-5000

May 29, 2002

The Honorable Steve Peace, Chair
Joint Legislative Budget Committee
State Capitol, Room 3060
Sacramento, CA 95814

Dear Senator Peace:

Senate Bill 5 (Chapter 7, Statutes of 2001, First Extraordinary Session) requires the Department of General Services (DGS) to submit quarterly reports to the Legislature and to the Governor on the \$40 million appropriated to the DGS for energy efficiency projects in state buildings and community colleges. The attached report entitled "Energy Efficiency Projects – SB 5X Legislative Report" fulfills this requirement.

The report includes the amount of funding committed; the measures, programs, or activities that have been undertaken; and a description of the effectiveness of the measures, programs, or activities in reducing peak electricity demand and improving energy efficiency as measured in kilowatt hours of electricity reduced per dollar expended.

The entire \$40 million appropriation for energy projects has been committed. A breakdown of the fund allocation is provided below:

- \$35.9 million has been committed for projects at 29 state facilities and community colleges;
- \$3.6 million has been allocated for investment grade audits at 63 additional facilities; and
- \$516,246 has been placed in a reserve contingency account to address unanticipated costs that may be realized during a project's development and construction (e.g. asbestos discovery and associated remediation).

The 29 financed energy projects are currently in the construction phase. These projects are expected to generate over \$4.8 million per year in energy savings, conserve 32,786 megawatt hours annually, and reduce peak load demand by eight megawatts. The average simple payback period for these projects is 7.4 years.

If you need further information or assistance, you may wish to have your staff contact Randy Ferguson, Program Director, Energy Management Office, Department of General Services, at 445-7656.

Very truly yours,

Clothilde V. Hewlett, Interim Director
Department of General Services

CVH:cm

Attachment

cc: See attached Distribution List #8

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Originating Office

SB X1 5--REVISED 03/11/02



Energy Efficiency Projects - SB 5X Legislative Report

March 31, 2002

ENERGY MANAGEMENT OFFICE
717 K Street, Suite 409
Sacramento, CA 95814
(916) 323-8777

PROJECTS IN CONSTRUCTION

<u>Project Description / Measures</u>	<u>Projected On-Line Date</u>	<u>Project Cost</u>	<u>Annual Energy Savings / Dollars</u>	<u>kW Savings</u>	<u>Annual kWh Savings</u>	<u>Annual Therm Savings</u>	<u>Annual Water Savings</u>	<u>kWh / \$ *</u>
CCD, Cypress Community College								
Lighting - T-8 Lamps, Electronic Ballasts	11/19/2002	\$646,933	\$140,802	343	1,236,364	0	\$0	28.67
HVAC - Boiler Replacements	10/10/2002	\$652,203	\$87,480	0	14,368	61,357	\$0	0.44
EMS - Energy Management Control System	4/26/2003	\$448,719	\$71,900	0	515,454	10,857	\$0	17.23
		\$1,747,855	\$300,182	343	1,766,186	72,214	\$0	16.63
CCD, Fullerton College								
Lighting - T-8 Lamps, Electronic Ballasts	9/26/2002	\$707,149	\$143,377	320	1,262,700	0	\$0	26.78
EMS - Replace and Expand Energy Management Control System	2/26/2003	\$429,324	\$73,095	91	664,500	0	\$0	23.22
Other - TES Installation, Boiler Replacements	3/26/2003	\$1,128,332	\$169,195	250	761,772	58,500	\$0	13.50
		\$2,264,805	\$385,667	661	2,688,972	58,500	\$0	20.41
CCD, Mt. San Jacinto College								
Lighting - T-8 Lamps, Electronic Ballasts	10/31/2002	\$76,076	\$25,410	47	140,000	0	\$0	27.60
HVAC - Zone Controls, Efficiency Motors	4/1/2003	\$286,967	\$65,522	137	361,000	0	\$0	25.16
EMS - Upgrade Energy Management Control System, Replace Points	9/22/2002	\$386,817	\$104,865	326	530,000	0	\$8,670	20.55
		\$749,860	\$195,797	510	1,031,000	0	\$8,670	22.92
CCD, Ohlone College								
Lighting - Motion Detectors	8/23/2002	\$10,496	\$6,494	0	90,200	0	\$0	128.91
EMS - Irrigation Control System	1/22/2002	\$23,316	\$5,000	0	0	0	\$5,000	N/A
Water - Occupancy Sensors for Sinks and Flush Valves	6/17/2002	\$39,218	\$5,000	0	0	0	\$5,000	N/A
		\$73,030	\$16,494	0	90,200	0	\$10,000	128.91
CDC, Calipatria State Prison								
Lighting - Fluorescent / Incandescent Fixtures, LED Exit Signs	1/2/2003	\$881,432	\$89,600	263	1,321,601	0	\$0	22.49
HVAC - Cooling Towers, Pump Motors, VFDs, TES, EMS Expansion, Fans	4/30/2004	\$4,236,749	\$613,429	1,890	7,996,863	0	\$0	33.97
		\$5,118,181	\$703,029	2,153	9,318,464	0	\$0	32.08
CDC, Ironwood State Prison Project								
Lighting - T8 Lamps, Electronic Ballasts, Exit Lamps, Occupancy Sensors	1/3/2003	\$1,361,551	\$251,519	2,180	2,114,195	0	0	23.29
HVAC - Motor Replacements	7/17/2002	\$573,690	\$62,012	40	648,000	0	\$0	22.59
		\$1,935,241	\$313,531	2,220	2,762,195	0	\$0	22.82
CDC, Susanville Gas Line Project								
Other - Gas Dist. System, Boilers, Propane Appl. Conv., Thermal Dist. System	7/29/2002	\$2,078,420	\$324,889	0	0	2,641,373	\$0	N/A
		\$2,078,420	\$324,889	0	0	2,641,373	\$0	N/A
CYA, DeWitt Nelson Youth Correctional Facility								
Lighting - T8 Lamps, Electronic Ballasts	3/15/2002	\$118,913	\$21,248	16	118,042	0	\$0	14.89
		\$118,913	\$21,248	16	118,042	0	\$0	14.89

Projects in Construction - Cont'd.

<u>Project Description / Measures</u>	<u>Projected On-Line Date</u>	<u>Project Cost</u>	<u>Annual Energy Savings / Dollars</u>	<u>kW Savings</u>	<u>Annual kWh Savings</u>	<u>Annual Therm Savings</u>	<u>Annual Water Savings</u>	<u>kWh / \$ *</u>
CYA, El Paso De Robles School								
Lighting - T8 Lamps, Electronic Ballasts	6/28/2002	\$227,029	\$47,905	31	228,120	0	\$0	15.07
		\$227,029	\$47,905	31	228,120	0	\$0	15.07
CYA, Fred C. Nelles School (Whittier)								
Lighting - T8 Lamps, Electronic Ballasts	6/28/2002	\$381,143	\$47,303	33	242,578	0	\$0	9.55
		\$381,143	\$47,303	33	242,578	0	\$0	9.55
CYA, Herman Stark Youth Training School (Chino)								
Lighting - T8 Lamps, Electronic Ballasts	6/28/2002	\$401,110	\$72,103	47	343,348	0	\$0	12.84
		\$401,110	\$72,103	47	343,348	0	\$0	12.84
CYA, Karl Holton, Drug/Alch Treament Facility								
Lighting - T8 Lamps, Electronic Ballasts	4/5/2002	\$95,383	\$39,294	24	179,412	0	\$0	28.21
		\$95,383	\$39,294	24	179,412	0	\$0	28.21
CYA, Northern Calif. Correctional Reception Center & Clinic								
Lighting - T8 Lamps, Electronic Ballasts	11/30/2001	\$235,675	\$18,627	12	120,174	0	\$0	7.65
		\$235,675	\$18,627	12	120,174	0	\$0	7.65
CYA, O.H. Close Youth Correctional Facility								
Lighting - T8 Lamps, Electronic Ballasts	4/26/2002	\$92,291	\$42,495	32	236,084	0	\$0	38.37
		\$92,291	\$42,495	32	236,084	0	\$0	38.37
CYA, Preston School of Industry (Ione)								
Lighting - T8 Lamps, Electronic Ballasts	2/22/2002	\$419,013	\$32,966	29	212,682	0	\$0	7.61
		\$419,013	\$32,966	29	212,682	0	\$0	7.61
CYA, South Reception Center (Norwalk)								
Lighting - T8 Lamps, Electronic Ballasts	6/28/2002	\$235,675	\$23,554	16	120,174	0	\$0	7.65
		\$235,675	\$23,554	16	120,174	0	\$0	7.65
CYA, Ventura School (Camarillo)								
Lighting - T8 Lamps, Electronic Ballasts	6/28/2002	\$320,651	\$49,453	29	215,011	0	\$0	10.06
		\$320,651	\$49,453	29	215,011	0	\$0	10.06
DGS, Justice Building Project								
Lighting - T8 Lamps, Electronic Ballasts	8/9/2002	\$295,342	\$29,238	59	295,338	0	\$0	15.00
HVAC - Chiller, VSDs	12/18/2002	\$749,106	\$109,545	58	1,106,513	0	\$0	29.54
EMS - Hardware and Software	12/18/2002	\$433,629	\$84,829	170	732,691	24,294	\$0	25.35
		\$1,478,077	\$223,612	287	2,134,542	24,294	\$0	25.20
DGS, Energy Commission Building Project								
Lighting - Lighting and Lighting Control Systems	3/12/2002	\$178,668	\$20,909	0	209,093	0	\$0	17.55
		\$178,668	\$20,909	0	209,093	0	\$0	17.55
DGS, Fresno Office Project								
Lighting - T8 Lamps, Electronic Ballasts, Occupancy Sensors	1/6/2003	\$218,517	\$30,099	49	214,992	0	\$0	14.76
HVAC - VSDs on Chiller and Pumps, Control System Modifications	2/20/2002	\$269,925	\$23,213	38	165,805	0	\$0	11.06
		\$488,442	\$53,312	87	380,797	0	\$0	12.71
DGS, Franchise Tax Board Phase II Project								
Other - Photo Voltaic Installation	7/29/2002	\$1,564,400	\$88,433	184	803,940	0	\$0	12.85
		\$1,564,400	\$88,433	184	803,940	0	\$0	12.85

Projects in Construction - Cont'd.

<u>Project Description / Measures</u>	<u>Projected On-Line Date</u>	<u>Project Cost</u>	<u>Annual Energy Savings / Dollars</u>	<u>kW Savings</u>	<u>Annual kWh Savings</u>	<u>Annual Therm Savings</u>	<u>Annual Water Savings</u>	<u>kWh / \$ *</u>
DGS, Franchise Tax Board								
Lighting - HID and Fluorescent Lighting	6/4/2002	\$577,055	\$149,376	387	1,508,847	0	\$0	39.22
		\$577,055	\$149,376	387	1,508,847	0	\$0	39.22
DGS, Library Courts Bldg II Project								
Lighting - T8 Lamps, Electronic Ballasts, Reflectors	3/8/2002	\$153,460	\$23,210	73	401,873	0	\$0	39.28
		\$153,460	\$23,210	73	401,873	0	\$0	39.28
DGS, Santa Rosa State Office								
HVAC - Motors, VFDs, Air Handler Units	8/5/2002	\$145,652	\$19,293	23	117,439	1,058	\$0	12.09
Water - Domestic Hot Water Controls	7/8/2002	\$716	\$170	0	1,206	37	\$0	16.84
		\$146,368	\$19,463	23	118,645	1,095	\$0	12.12
DGS, Van Nuys Office Project								
HVAC - VSDs for CHW, CW Pumps, CT Fans, CO Controls	8/6/2002	\$335,643	\$29,627	4	246,014	7,013	\$0	13.19
EMS - Energy Management Control System / DDC Controls	2/13/2002	\$99,507	\$19,670	0	167,020	4,062	\$0	25.18
		\$435,150	\$49,297	4	413,034	11,075	\$0	15.95
DMH, Atascadero State Hospital Project								
HVAC - Chiller / Boiler Replacement, Motors, Pumps, Deposit Control System	1/15/2004	\$4,901,000	\$620,276	740	5,089,160	-161,986	\$0	20.77
		\$4,901,000	\$620,276	740	5,089,160	-161,986	\$0	20.77
DMH, Patton State Hospital Project								
HVAC - Boiler Replacement	11/19/2003	\$7,052,872	\$639,039	54	398,932	698,666	\$0	1.13
		\$7,052,872	\$639,039	54	398,932	698,666	\$0	1.13
DMH, Patton State Hospital Phase II								
HVAC - Motors, VFDs	7/22/2003	\$152,763	\$23,826	0	158,731	0	\$0	20.78
EMS - New EMS System	7/22/2003	\$1,878,659	\$245,109	0	1,148,713	88,675	\$0	9.17
Other - Pumping System	7/22/2003	\$353,798	\$36,048	0	240,160	0	\$0	12.22
		\$2,385,220	\$304,983	0	1,547,604	88,675	\$0	10.22
DPR, Hearst Castle Lighting Retrofit								
Lighting - Lighting Retrofit	10/14/2003	\$59,970	\$10,743	32	107,428	0	\$0	26.87
		\$59,970	\$10,743	32	107,428	0	\$0	26.87
Total of Projects in Construction		\$35,914,957	\$4,837,190	8,027	32,786,537	3,433,906	\$18,670	15.91

AUDITS

<u>Project Description</u>	<u>Audits</u>
ARB, Haagen-Smit Laboratory	\$ 3,000
ARB, Headquarters	\$ 2,000
CC, Bakersfield College	\$ 6,936
CC, Copper Mountain College	\$ 962
CC, LA Harbor College	\$ 3,954
CC, Long Beach City College	\$ 16,302
CC, Merced College	\$ 7,315
CC, West Hills College	\$ 4,685
CC, West Valley College	\$ 4,692
CDC, California State Prison (Represa, New Folsom)	\$ 139,259
CDC, Chuckwalla	\$ 89,006
CDC, Correctional Training Facility (Soledad)	\$ 91,088
CDC, CSP-LA County	\$ 88,431
CDC, Deuel Vocational Institute (Tracy)	\$ 113,908
CDC, Galt Training Center (Galt)	\$ 52,261
CDC, Mule Creek State Prison (Ione)	\$ 165,732
CDC, North Kern State Prison	\$ 101,732
CDC, Salinas Valley State Prison - Soledad II	\$ 42,164
CDC, San Quentin State Prison	\$ 6,754
CDE, School For The Deaf (Riverside)	\$ 91,168
CHP, Academy / Administrative Offices	\$ 40,568
CHP, Vallejo	\$ 42,127
DDS, Canyon Springs	\$ 3,000
DDS, Porterville Developmental Center	\$ 5,800
DGS, Bateson Building	\$ 51,481
DGS, Board of Equalization	\$ 48,043
DGS, DWR Fresno Annex	\$ 24,365
DGS, EDD Annex	\$ 54,686
DGS, EDD Headquarters	\$ 11,127
DGS, Edmund G. Brown Building (aka PUC)	\$ 90,803
DGS, Education Building	\$ 20,056
DGS, Elihu Harris Building (Oakland)	\$ 151,165
DGS, Heating & Cooling Plant	\$ 174,548
DGS, Junipero Serra Office (Los Angeles)	\$ 78,390
DGS, Legislative Office Building	\$ 46,463
DGS, Library & Courts Building I	\$ 3,000
DGS, Mission Valley Building (San Diego)	\$ 21,527
DGS, Personnel Building	\$ 29,298
DGS, Red Bluff State Building	\$ 6,575
DGS, Redding State Building	\$ 6,575
DGS, Resources Building	\$ 87,845
DGS, Ronald Reagan Building (Los Angeles)	\$ 245,172
DGS, San Diego Office	\$ 26,643
DGS, San Francisco Civic Center	\$ 118,008
DGS, San Jose State Office	\$ 24,788
DGS, Santa Ana State Office	\$ 32,573
DGS, Secretary of State Building (State Archives)	\$ 51,571
DGS, State Capitol	\$ 67,216
DGS, State Printing Plant	\$ 48,832
DGS, Stockton State Building	\$ 49,634
DMH, Metropolitan State Hospital	\$ 240,689
DMH, Napa State Hospital - HVAC / Cogen	\$ 116,290
DMV, Los Angeles (Hope)	\$ 13,074
DMV, Sacramento (2415 / 2490 First)	\$ 98,376
DMV, Sacramento (4700 Broadway)	\$ 11,894
DSS, Dept. of Social Services (Fresno)	\$ 18,110
DVA, Barstow Veterans Home	\$ 79,816

<u>Project Description</u>	<u>Audits</u>
DWR, Delta Field Office	\$ 67,380
DWR, Oroville (Richvale)	\$ 70,763
DWR, San Luis Obispo	\$ 54,089
EDD, Los Angeles (South Broadway)	\$ 4,750
EDD, San Jose	\$ 20,899
Lottery, California State Lottery Commission	\$ 79,439
TOTAL AUDITS	\$ 3,568,797
RESERVE CONTINGENCY ACCOUNT	
<u>Description</u>	<u>Amount</u>
Reserve Contingency Account	\$ 516,246
GRAND TOTAL	\$40,000,000
(INCLUDES CONSTRUCTION, AUDITS AND RESERVE CONTINGENCY ACCOUNT)	
<p>* ((Annual kWh Savings * Asset Life)/Project Cost) - Does not account for savings associated with natural gas and water.</p> <p>CYA project information is provided by CYA.</p> <p>EMD's energy savings calculations are based upon engineering estimates.</p>	